

1. Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A wearable device (~~30~~) arranged for enabling a bioelectrical interaction (~~M,S~~) with an individual by means of a first signal (~~S~~), said device comprising:
_____an electrode (~~2~~) having a contact surface arranged to be brought into contact with the individual's skin (~~H~~) for carrying out said interaction, the electrode comprising motion artifact detection means (~~4~~), having a thin film pressure sensor arranged on a rear surface of the electrode, said rear surface being opposite the contact surface,
~~wherein~~~~characterized in that~~ the motion artifact detection means (~~4~~) is arranged to determine a component normal to the contact surface of an external force applied to the electrode under operating conditions, said motion artifact detection means being arranged to provide a second signal (~~M~~) and comprising motion artifact correction means (~~20~~) to process the second signal in order to correct the value of the first signal for a motion artifact.
2. (Currently Amended) A wearable device according to claim 1, ~~characterized in that~~
wherein the device comprises control means (~~16~~) arranged to analyze the second signal (~~M~~), said control means (~~16~~) being further arranged to actuate the motion artifact correction means (~~20~~) upon an occurrence of a predetermined event.

3. (Currently Amended) A wearable device according to claim 2, ~~characterized in that~~
wherein the device comprises means for deriving the occurrence of the predetermined
event from the second signal.

4. -5. (Cancelled).

6. (Currently Amended) A wearable device according to claim 1, ~~characterized in that~~
wherein the motion artifact correction means comprises a linearization element, said
linearization element being arranged to correct for a non-linearity in a relation between
an absolute value of the second signal and the external force.

7. (Currently Amended) A wearable device according to claim 1, ~~characterized in~~
~~that~~wherein the electrodes are of a dry type.

8. (Currently Amended) An electrode assembly ~~(4)~~ comprising:
_____ an electrode having a contact surface, the assembly being arranged to enable a
bioelectrical interaction with an individual by means of a first signal (S) when the contact
surface is brought in contact with the individual's skin, said electrode assembly
comprising motion artifact detection means ~~(4)~~ having a thin film pressure sensor
arranged on a rear surface of the electrode, said rear surface being opposite the contact
surface, wherein ~~characterized in that~~ the motion artifact detection means ~~(4)~~ is arranged
to determine a component normal to the contact surface of an external force applied to
the electrode under operating conditions, said motion artifact detection means being
arranged to provide a second signal ~~(M)~~, related to the external force.

9. -10. (Cancelled).